

**In the Claims:**

Add new claims 60-74 as follows:

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60. (New) A method of processing signals in a communication circuit, comprising the steps of:  
receiving a plurality of signals from a plurality of receive antennas;  
producing a channel estimate in response to a predetermined signal of the plurality of signals; and  
multiplying the plurality of signals by the channel estimate and a matrix.

61. (New) A method as in claim 60, comprising the step of despreading the plurality of signals in response to a code.

62. (New) A method as in claim 60, comprising the step of removing interference from the plurality of signals.

63. (New) A method as in claim 60, comprising the steps in any order of:  
selecting the matrix from a finite set of matrices;  
identifying the selected matrix to a remote receiver; and  
calculating a product of the channel estimate and the selected matrix prior to the step of multiplying.

64. (New) A method as in claim 60, comprising the steps in any order of:  
converting a group of the plurality of signals to serial signals;  
demodulating the serial signals;  
deinterleaving the serial signals; and  
decoding the serial signals.

65. (New) A method as in claim 60, wherein the predetermined signal comprises at least one pilot symbol.

66. (New) A method as in claim 60, wherein the matrix is a linear basis transformation matrix.

67. (New) A method as in claim 60, comprising the step of receiving the plurality of signals from a plurality of remote transmit antennas, wherein the plurality of signals are encoded differently for each respective antenna of the plurality of transmit antennas.

68. (New) A method of processing signals in a communication circuit, comprising the steps of:  
receiving a plurality of signals;  
modulating the plurality of signals;  
multiplying the plurality of signals by a matrix; and  
transmitting the plurality of signals from a plurality of transmit antennas.

69. (New) A method as in claim 68, comprising the step of spreading the plurality of signals in response to a code.

70. (New) A method as in claim 68, comprising the step of selecting the matrix from a finite set of matrices in response to a signal from a remote transmitter.

71. (New) A method as in claim 68, comprising the steps in any order of:  
encoding the plurality of signals;  
interleaving the plurality signals; and  
converting the plurality of signals to serial signals.

72. (New) A method as in claim 68, comprising the step of transmitting a predetermined signal to a remote receiver on a channel different from a channel of the plurality of signals.

73. (New) A method as in claim 68, wherein the matrix is a linear basis transformation matrix.